

**CLAIM AMENDMENTS**

**Claim 1. (Canceled)**

**Claim 2. (Previously Presented)** A microfluidic device according to Claim 3, wherein said collar has its inner surface aligned with the inner surface of said opening and a thickness of from about 0.05 to 0.5 mm thick extending away from said inner surface.

**Claim 3. (Amended)** A microfluidic device comprising:

a substrate having a planar surface ~~having and~~ at least one ~~microstructure~~ microfluidic unit formed thereon therein, each microfluidic unit having at least one reservoir with a plurality of an openings opening in said surface ~~of microstructures and at least a portion of such that said openings opening~~ is surrounded by a collar in relief, and wherein said collar is covered with a lid of a conformable material.

**Claim 4. (Canceled)**

**Claim 5. (Previously Presented)** A microfluidic device according to Claim 3 produced by plastic molding.

**Claim 6. (Amended)** A microfluidic device according to claim 3 wherein said at least one microfluidic unit comprises one or more operational units each comprising a substrate having a planar surface, comprising at least two reservoirs connected by at least one microchannel in said substrate, wherein

a plurality of each of such reservoirs having openings in said surface, has said opening in said surface and a volume said reservoirs having volumes in the range of about 10 nl to 10 µl;

and wherein each said at least a portion of said openings opening has surrounded by a collar in relief, having an inner surface aligned with the an inner surface of said reservoir the surrounded opening, said and the collar having a height in the range of about 0.1 to 1 mm and a thickness of from about 0.05 to 0.5 mm thick extending away from said inner surface.

**Claim 7. (Canceled)**

**Claim 8. (Original)** A microfluidic device according to Claim 6, wherein at least a portion of said reservoirs are positioned in accordance with a 96, 384 or 1536 microtiter well format.

**Claim 9. (Canceled)**

**Claim 10. (Amended)** A microfluidic device according to Claim 9 6, wherein ~~each collar is covered with a lid, which~~ said lid is a portion of a continuous film.

**Claim 11. (Original)** A microfluidic device according to Claim 6, wherein said substrate comprises an acrylic polymer and is molded.

**Claims 12-16. (Canceled)**